

WHAT IS CLAIMED IS:

1. A method comprising:

providing a fruit juice that is substantially free of insoluble fruit solids,

treating a first portion of the fruit juice to preferentially separate the relatively lower

5 molecular weight sugars and acids from the relatively higher molecular weight
phytochemical compounds whereby a relatively lower molecular weight sugars and acids-
rich juice fraction and a relatively higher molecular weight phytochemical-rich juice fraction
are produced, and

10 combining the relatively higher molecular weight phytochemical-rich juice fraction
with a second portion of the fruit juice to create a phytochemical-rich fruit juice.

2. The method of claim 1, further comprising combining the relatively lower
molecular weight sugars and acids-rich juice fraction with a third portion of the fruit juice to
create a sugars and acids-rich fruit juice.

15 3. The method of claim 1, further comprising concentrating the phytochemical-rich
fruit juice by removing a portion of the water therein.

4. The method of claim 2, further comprising concentrating the sugars and acids-rich
fruit juice by removing a portion of the water therein.

5. The method of claim 1 wherein the fruit juice is cranberry juice.

6. A sugars and acids-rich fruit juice prepared by the method of claim 2.

20 7. A phytochemical-rich fruit juice prepared by the method of claim 1.

8. The method of claim 1 wherein the step of treating a first portion of the fruit juice
comprises ultrafiltration.

9. A method comprising:

providing a fruit juice that is substantially free of insoluble fruit solids,

treating a first portion of the fruit juice to preferentially separate the relatively lower molecular weight sugars and acids from the relatively higher molecular weight

5 phytochemical compounds whereby a relatively lower molecular weight sugars and acids-rich juice fraction and a relatively higher molecular weight phytochemical-rich juice fraction are produced, and

combining the relatively lower molecular weight sugars and acids-rich fruit juice fraction with a second portion of the fruit juice to create a sugars and acids-rich fruit juice.

10 10. The method of claim 9, further comprising combining the relatively higher molecular weight phytochemical-rich juice fraction with a third portion of the fruit juice to create a phytochemical-rich fruit juice.

11. The method of claim 10, further comprising concentrating the phytochemical-rich fruit juice by removing a portion of the water therein.

15 12. The method of claim 9, further comprising concentrating the sugars and acids-rich fruit juice by removing a portion of the water therein.

13. The method of claim 9 wherein the fruit juice is cranberry juice.

14. A sugars and acids-rich fruit juice prepared by the method of claim 9.

15. A phytochemical-rich fruit juice prepared the by method of claim 10.

20 16. The method of claim 9 wherein the step of treating a first portion of the fruit juice comprises ultrafiltration.

17. A blended juice product comprising the sugars and acids-rich fruit juice of claim 6 or claim 14.

18. A blended juice product comprising the phytochemical-rich fruit juice of claim 7 or claim 15.

19. An oral hygiene product comprising the phytochemical-rich fruit juice of claim 7 or 15.

5 20. The oral hygiene product of claim 19 wherein the product is an oral rinse.

21. The oral hygiene product of claim 19 wherein the product is a dentifrice.

22. The oral hygiene product of claim 19 wherein the product is a chewing gum.

23. A sugars and acids-rich fruit juice powder prepared by drying the sugars and acids-rich fruit juice of claim 6 or claim 14.

10 24. A phytochemical-rich fruit juice powder prepared by drying the phytochemical-rich fruit juice of claim 7 or 15.

25. A topical antiseptic comprising the phytochemical-rich fruit juice of claim 7 or 15.

15 26. A wound dressing impregnated with the phytochemical-rich fruit juice of claim 7 or 15.

27. A topical antiseptic comprising the phytochemical-rich fruit juice powder of claim 24

28. A wound dressing impregnated with the phytochemical-rich fruit juice powder of claim 24.

20 29. A dietary supplement comprising the phytochemical-rich fruit juice powder of claim 24.

30. A tablet comprising the dietary supplement of claim 29.

31. A method comprising:

providing a vegetable juice that is substantially free of insoluble vegetable solids,
treating a first portion of the vegetable juice to preferentially separate the relatively

5 lower molecular weight sugars and acids from the relatively higher molecular weight
phytochemical compounds whereby a relatively lower molecular weight sugars and acids-
rich juice fraction and a relatively higher molecular weight phytochemical-rich juice fraction
are produced, and

10 combining the relatively higher molecular weight phytochemical-rich juice fraction
with a second portion of the vegetable juice to create a phytochemical-rich vegetable juice.

32. The method of claim 31, further comprising combining the relatively lower
molecular weight sugars and acids-rich juice fraction with a third portion of the vegetable
juice to create a sugars and acids-rich vegetable juice.

15 33. The method of claim 31, further comprising concentrating the phytochemical-
rich vegetable juice by removing a portion of the water therein.

34. The method of claim 32, further comprising concentrating the sugars and acids-
rich vegetable juice by removing a portion of the water therein.

35. The method of claim 31 wherein the vegetable juice is carrot juice.

36. A sugars and acids-rich vegetable juice prepared by the method of claim 32.

20 37. A phytochemical-rich vegetable juice prepared by the method of claim 31.

38. The method of claim 31 wherein the step of treating a first portion of the
vegetable juice comprises ultrafiltration.

39. A method comprising:

providing a vegetable juice that is substantially free of insoluble vegetable solids,

treating a first portion of the vegetable juice to preferentially separate the relatively lower molecular weight sugars and acids from the relatively higher molecular weight phytochemical compounds whereby a relatively lower molecular weight sugars and acids-rich juice fraction and a relatively higher molecular weight phytochemical-rich juice fraction
 5 are produced, and

combining the relatively lower molecular weight sugars and acids-rich vegetable juice fraction with a second portion of the vegetable juice to create a sugars and acids-rich vegetable juice.

40. The method of claim 39, further comprising combining the relatively higher
 10 molecular weight phytochemical-rich juice fraction with a third portion of the vegetable juice to create a phytochemical-rich vegetable juice.

41. The method of claim 40, further comprising concentrating the phytochemical-rich vegetable juice by removing a portion of the water therein.

42. The method of claim 39, further comprising concentrating the sugars and acids-
 15 rich vegetable juice by removing a portion of the water therein.

43. The method of claim 39 wherein the vegetable juice is carrot juice.

44. A sugars and acids-rich vegetable juice prepared by the method of claim 39.

45. A phytochemical-rich vegetable juice prepared the by method of claim 40.

46. The method of claim 39 wherein the step of treating a first portion of the
 20 vegetable juice comprises ultrafiltration.

47. A blended juice product comprising the sugars and acids-rich vegetable juice of claim 36 or claim 44.

48. A blended juice product comprising the phytochemical-rich vegetable juice of claim 37 or claim 45.

49. An oral hygiene product comprising the phytochemical-rich vegetable juice of claim 37 or 45.

50. The oral hygiene product of claim 49 wherein the product is an oral rinse.

51. The oral hygiene product of claim 49 wherein the product is a dentifrice.

5 52. The oral hygiene product of claim 49 wherein the product is a chewing gum.

53. A sugars and acids-rich vegetable juice powder prepared by drying the sugars and acids-rich vegetable juice of claim 36 or claim 44.

54. A phytochemical-rich vegetable juice powder prepared by drying the phytochemical-rich vegetable juice of claim 37 or 45.

10 55. A topical antiseptic comprising the phytochemical-rich vegetable juice of claim 37 or 45.

56. A wound dressing impregnated with the phytochemical-rich vegetable juice of claim 37 or 45.

15 57. A topical antiseptic comprising the phytochemical-rich vegetable juice powder of claim 54

58. A wound dressing impregnated with the phytochemical-rich vegetable juice powder of claim 54.

59. A dietary supplement comprising the phytochemical-rich vegetable juice powder of claim 54.

20 60. A tablet comprising the dietary supplement of claim 59.